The Business Farmer's Page HUSBAND RESCUED

NEW LIFE FOR THE OLD SOIL

Green Manures Work Wonders. W. H. STEVENSON.

Any crops grown and plowed under green to increase the productive capacity of the soil are called green manure crops. Sometimes such crops occupy the land for only a part of the "cover" crops or "catch" crops.

Green manuring is an important matter to the soil, which is gradually converted into humas, an absolutely essential constituent of the soil. Of course humus may be secured by applying barnyard manure, but as a rule there is not enough of this material tomeet the needs of the land. However, green manuring is not enough in itself afterward to keep a soll from wearing out, so other practices must be followed. Crops. must be grown in rotation, the moisture content of the soil regulated, proper tiliage practiced, the soil kept sweet. the supply of mineral plant food maintained, especially the supply of phosphorus and potassium, and the nitrogen content of the soil kept up. These factors all play an important part in keeping a soil productive, but they are not more important than green

Poor Soils Especially Benefited.

In general green manures are beneficial when used on poor soils because of their action on the physical, chemical and bacteriological conditions of the soil. From the physical side green manures influence the moisture, temperature and aeration of soils. For example, on light, sandy soils they prevent rapid drying out by reducing the losses of moisture due to evaporation and percolation, and further make the soil more compact. While they have just the opposite effect on heavy clay soils, here the organic matter opens up the soil and admits air.

The practice of leaving the soil bare during July and August following the harvest of a small grain crop is very bad, as it causes the loss of large amounts of nitrogen by percolation These losses may be prevented in a large measure by growing green manure crops on the land, especially is this true of leguminous crops, which beets, one ounce for 50 feet; Brussels stimulate greater bacterial action, and sprouts, one ounce for 2,000 plants; car as a result larger amounts of available rots, one ounce to 100 feet; celery, one plant food are produced. Rye, wheat, ounce for 2,000 plants; Swiss chard, buckwheat and rape are the nonlegu- one ounce for 50 feet; lettuce, one minous crops which are commonly ounce for 100 feet; onlons, one ounce used for green manuring, while red for 100 feet; sets, one quart for 50 feet; clover, mammoth clover, sweet clover, parsley, one ounce for 150 feet; parscrimson clover, Canada field pens, cow- mips, one ounce for 200 feet; pens, one peas, soy beans and vetches are the quart for 100 feet; potatoes, one peck best known legumes for this purpose. for 100 hills.

The secret of keeping our gardens

SEEDS IN APRIL

Plant Only Real Live Ones and Keep Them Growing.

Good seeds to grow should be pure or free from other kinds of seeds, be true to name and possess the greatest possible longevity. Testing seeds is in itseason. They are then known as self interesting, but few have the time for it, and therefore we should use care in buying only from the reliable seed practice, chiefly because it adds organic; houses. Corn, however, should be test ed to order to avoid loss from low vital ity and thus having to replant. Testing seeds is a simple matter, and many use the pasteboard fillers out of egg crabes to do it, hose being filled with ach organization water; a piece of damp about 85 per cent should germinate.

> Sowing the Seeds, The two requisites for the germina tion of seeds are a congenial temperature and a continuous supply of mois ture. The gardener has little to say about temperature, but the moisture question can be controlled by the use of the roller or the feet, providing one does not use a seed drift having a small roller attached. Peter Henderson in his book, "Gardening For Profit," devotes a whole chapter to the use of the feet in planting. For example, plant two rows of radishes where the soil is dry and press down firmly with the feet over one row, smoothing the other row with a rake, and note the difference. The radishes which have been tramped down are able to get moisture by capil

for want of it. In sowing seeds that start slowly, as parsnips, celery, etc., it is well to sow with them a few strong, quick germi nating seeds to break the crust and mark the rows so that cultivation may begin early. Frequently a crop of rad ishes may be grown this way before the main crop takes up the land. The following vegetables may be planted as soon as the soil is fit to work:

lary attraction, while the others suffer

Asparagus, one ounce for 50 feet: broad beans, one quart for 100 feet;

Many of our vegetable seeds do well and fields fertile is to plow deep, and when transplanted, and these may be if necessary subsoil, cultivate there started in boxes in the house or under

MIEW STATE

GUNPOWDER

TEA

STOCKING UP WITH PLANT FOOD

Buy Your Fertilizer Intelligently. E. K. PARKINSON.

In buying commercial fertilizer do not be guided wholly by a chemical analysis of the crop to be fertilized. Solls differ widely and my be deep or grain and animal food, and you should similion, sandy or loamy, containing take to per cent of the chicks. Alberal supplies of plant food which | Every chick deserves to be well could be brought into use by deep hatched of stordy ancestry and prop plowing and thorough cultivation, or perhaps markedly lacking in plant First, then, you must know something of the character of your soll, and you may usually count on damp sand, then a kernel of corn is sandy and gravely soils being poor in placed in each and covered with sand. Potash and phosphoric acid; clay soils - ratered thoroughly usually rich in potash and poor in lime and phosphoric acid; limestone soils cotton cloth is then hald over the tester rich in that element and phosphoric until the seeds sprout, which is in acid and poor in potash, while soils about five days. If the seed is good containing leaf mold or other kinds of vegetable matter are usually rich in all

Formulas to Use. Having determined the general nature of the soil, the formulas given below will meet the requirements of good sandy loam. In purchasing fertilizer remember part of the nitrogen should be in the form of nitrate of soda, which becomes immediately available, and part should be in the form of organic nitrogen, such as tankage. dried blood, or dry ground fish, which is not immediately available, while part of the phosphoric acid should be soluble as acid phosphate and part insoluble, such as ground bone, South Carolina rock or Tennessee rock. (These facts may be had from the salesmen.)

Crop.	Formula.	Pounds.
Asparagus	4-5-10	75
Beans	2-8-10	29
Boets	4-6-12	62
Cabbage (early)	6-3-10	. 90
Cabbage (late)		102
Calery	4.5-8-7.5	90
COTH	4-8-11	201
Lettuce	5-8-19	62
Onlens	5-7-10	62
Pess	2-8-10	26
Potatoes	4-8-10	50
Squash and pumpking		62
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These elements provide plant food to start crops and feed them through the season. To use this table remember commercial fertilizers are sold on a percentage basis thus: 4-8-10 means 4 per cent actual nitrogen, 8 per cent actual phosphoric acid and 10 per cent potash. So from a 200 bag of potash containing 51 per cent actual potash, 51 per cent of 200 pounds is 102 pounds. The 4-8-10 calls for 10 per cent actual potash or 10 per cent of 102 pounds. which is 10.2 pounds. In feeding plants harrow into the soil part of the fertilizer to be used and then after the plants are up spread a bit more between the rows and work it into the soil with the cultivator. This is especially true of nitrate of soda.

SIMPLE CARE OF CHICKS

Economy In Raising Them. DR. SANBORN, Helden, Mass.

There is less fuss in rearing of chicks than a few years ago, A warm brooder. some the litter, cracked grain and grit, with perhaps a much containing ground

erly reared. The eggs should be from carefully selected stock, well housed and fed, to produce chicks that stand adverse conditions. The fen or incubuter should do its part well, as many a sile is made between the laying of the exa and the batching of the chick. I prefer the immp heated brooder to

either the lam or the heatless brooder, for while some hens do good broading and in some seasons you can raise good chicks with the fireless brooder. yet for easy, successful brooding of fifty chicks my preference is for the

The chicks, when dry, are taken from the hen or machine and transferred to the well warmed brooder. I prefer it should be fully as warm under the hover as was the incubator, then, if too hot, the chicks can be spread out into the less warm part of the broader floor. or if at any hour the temperature drops the chicks can retire to a warmer place

under the hover. What to Feed Them.

At the start the chicks get cool water to drink and only the food that is in the barn waste used to cover the brood er floor. Really they need no food, and what they find in the waste is plenty When a few days old they need light feeding of cracked wheat, good fish or beef scrap opersonally I have found nothing better than a good grade of fish scrap) added at eight days of age and finely cracked, dry corn at ten to twelve days. It is important that all chick feed be sound, sweet and clean Avoid musty corn, scrap that is fit only for ferillizer, and stale drinking water Unless there is some grit in the barn waste that is used for brooder floor it should be supplied. Chicks need a warm place to retire to when cold, an open room to get out into and exercise, as well as a grass run to range over when two weeks old. Close confine ment to hot brooders tends to give leg weakness. As the chicks grow in age the heat of the brooder can be reduced to about 80 degrees. Too many chicks are hatched that are doomed to die be cause from weak stock or incubated wrongly, but the blame is usually laid on the brooder. Yearling hens make the best of breeders, better than pullets, and are in their prime through March and April, which is the time for

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Catron, Ky -- In an Interesting letter tiring me, and am doing all my work," rom this place, Mrs. Bettie Bullock writes as follows: "I suffered for four troubles, don't give up in despair. Try /ears, with womanly troubles, and during | Cardui, the woman's tonic. It has helped his time, I could only sit up for a little more than a million women, in its 50 while, and could not walk anywhere at years of continuous success, and should ill. At times, I would have severe pains surely help you, too. Your druggist has

The doctor was called in, and his treat- it will do. Ask him. He will recomnent relieved me for a while, but I was mend it. Begin taking Cardul today. soon confined to my bed again. After

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and I gave up in despair.

At last, my husband got me a bottle of Cardui, the woman's tonic, and I commenced taking it. From the very first dose, I could tell it was helping me. I can now walk two miles without its

If you are all run down from womanly sold Cardui for years. He knows what



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strength. The tea which is brewed 6 from them is clear and pure. The later pickings are heavier and have not the natural sweetness of the first cropwhich makes tea one of the most

othe Orient, where the best tea is

on sound principles, should be the court's soverign guide. I believe that all public off cials should put in practice the spirit of section II, article 2 of the Constitution, by giving full measure in honest and conscientious service to the state in return for the confidence of the people and the compensation paid them.

When I accepted the appointment as Associate Justice of the Supreme Court, I did so with the purpose of giving my full time to ~~ the duties of the office. The cour is far behind, and the presence of each member is required constantly, hence. I shall be able to give but little time to campaigning.

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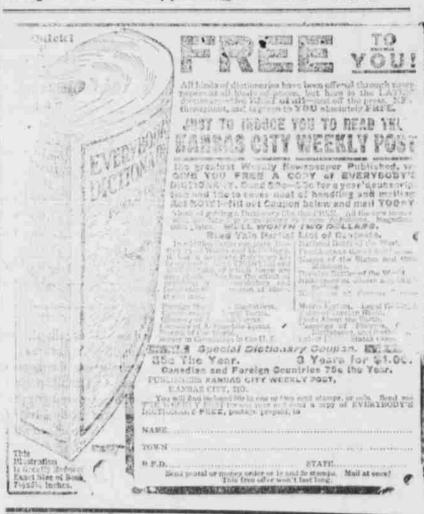
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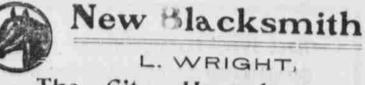
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